

SVETLANA TECHNICAL DATA
572B
High-Mu Power Triode

The Svetlana™ 572B is a high-mu power triode intended for use in class AB, class B and class C RF and Audio amplifiers. The Svetlana 572B features a massive graphite anode for high peak overload capability and a high average plate dissipation of 160 Watts. The Svetlana 572B also features a low loss ceramic base and a bonded-ceramic plate cap thermal insulator for high power RF transmitting tube capability.

The Svetlana 572B has a superior getter system based on titanium adhered to the external surface of the graphite anode. The titanium coating covers the entire anode area extended by the inherent micro surface roughness of graphite. The Svetlana 572B envelope is fabricated from hard glass intended specifically for the high-temperature operation of transmitting tubes.

The internal tube parts are supported by low loss ceramic insulators for high-temperature operation and high voltage hold-off. The internal structure is well supported and is aligned with respect to the base pins to avoid internal shorts in equipment designed for horizontal tube mounting.

The Svetlana 572B may be used as a direct drop-in replacement in equipment designed for the 811A, T160L or 572B.

Characteristics

Electrical

Filament:	*Thoriated-tungsten*
Voltage (AC or DC)	*6.3 V ± 0.3V*
Current	*4 A*
Amplification factor (average)	*170*
Direct interelectrode capacitances:	
Grid to plate	*6.0pF*
Grid to filament	*5.9 pF*
Plate to filament	*0.8 pF*
Maximum frequency for full ratings	*30 MHz*

Mechanical

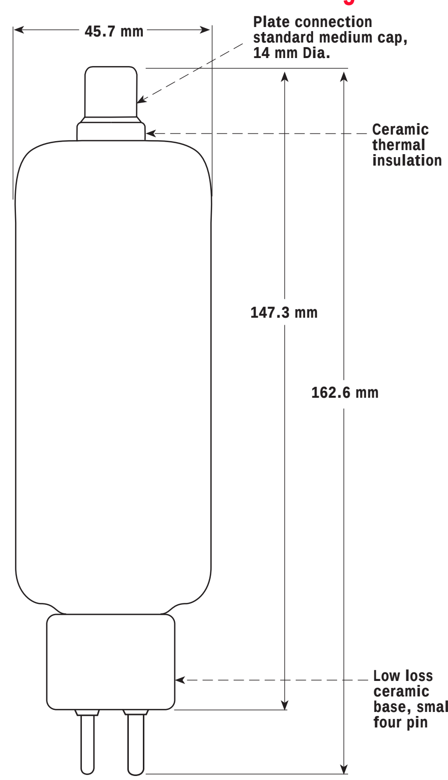
Cooling	*Radiation and forced air*
Base	*Ceramic, standard small four pin*
Plate cap	*Standard medium cap 14 mm dia. with ceramic thermal insulation*
Plate connector	*Svetlana PC-1A or equivalent*
Socket	*Svetlana SK4A, Standard small, four contact*
Operating position-Axis vertical, base down or horizontal w/ pins 1 and 4 in vertical plane	
Nominal dimensions:	
Diameter	*45.7 mm (1.8 in.)*
Base to plate cap	*147.3 mm (5.8 in.)*
Overall height	*162.6 mm (6.4 in.)*
Net weight	*113 gm*

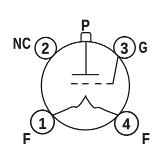
Linear RF Power Amplifier, Class B Grounded Grid, Maximum ratings

	ICAS*	
DC plate voltage	*2750*	*V*
DC plate current	*275*	*mA*
Plate dissipation	*160*	*W*
DC Plate input	*600*	*W*
DC Grid current	*50*	*mA*

*Intermittant commercial and ameteur service

Svetlana Outline drawing





Base pin connections, bottom view

Notes:

The internal structure is aligned with respect to the base pins to avoid internal shorting problems in equipment designed for horizontal tube mounting.

Svetlana
ELECTRON DEVICES

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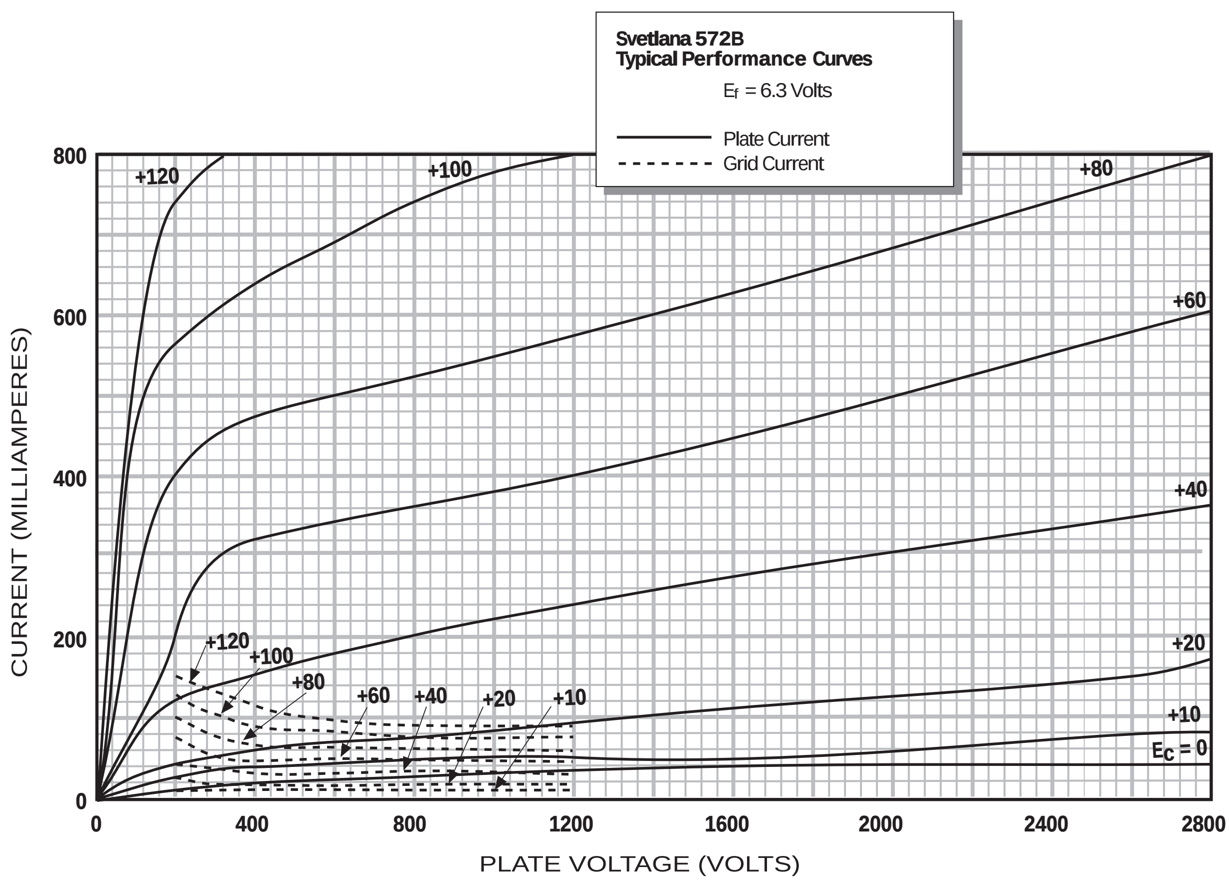
Typical Operation, Grounded Grid Linear Amplifier

(frequencies to 30 MHz)	*ICAS***	
DC plate voltage	*2400*	*V*
DC grid voltage	*-2*	*V*
*Zero-signal DC plate current ***	*45*	*mA*
Single-tone DC plate current	*250*	*mA*
Driving power	*50*	*W*
*Single-tone useful output power ***	*300*	*W*

*** Approximate value*

Mechanical Application

Mounting: The Svetlana 572B may be operated with its axis vertical and the base down, or horizontally with pins 1 and 4 in a vertical plane.



Versions of the 572B designed for audio amplifier service are available.
Ask for SV572 Series data.